

Fig. 1

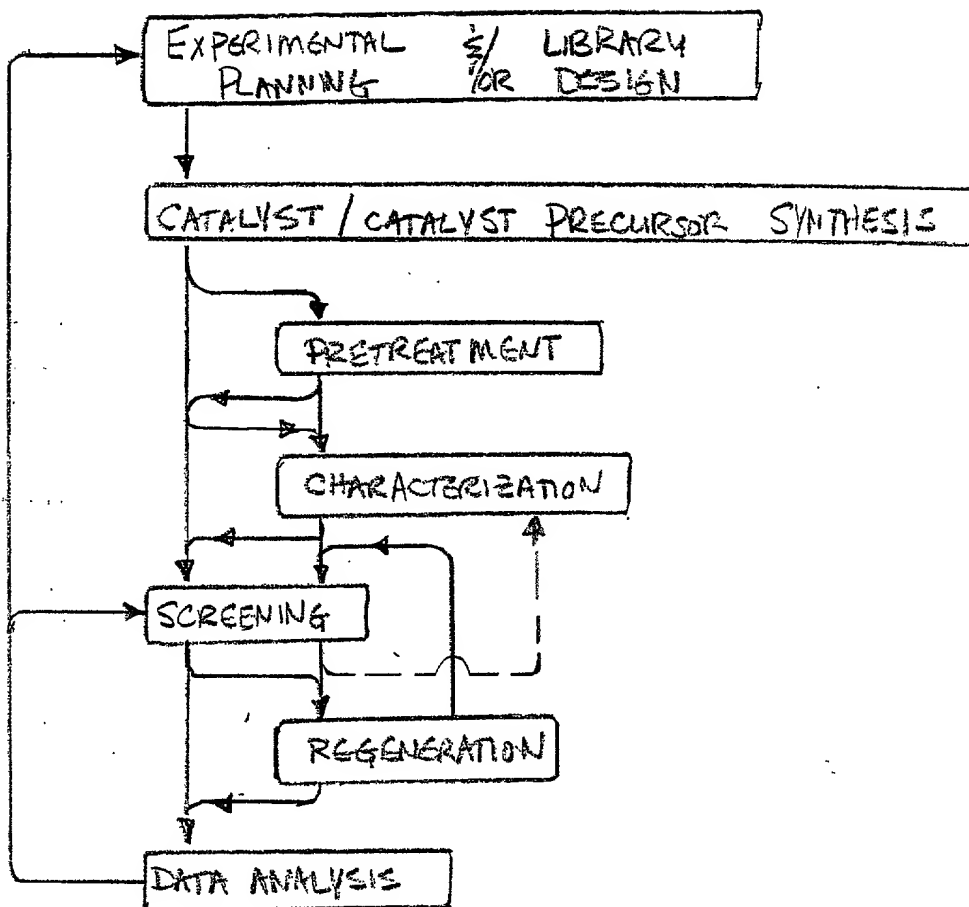


FIG. 2A

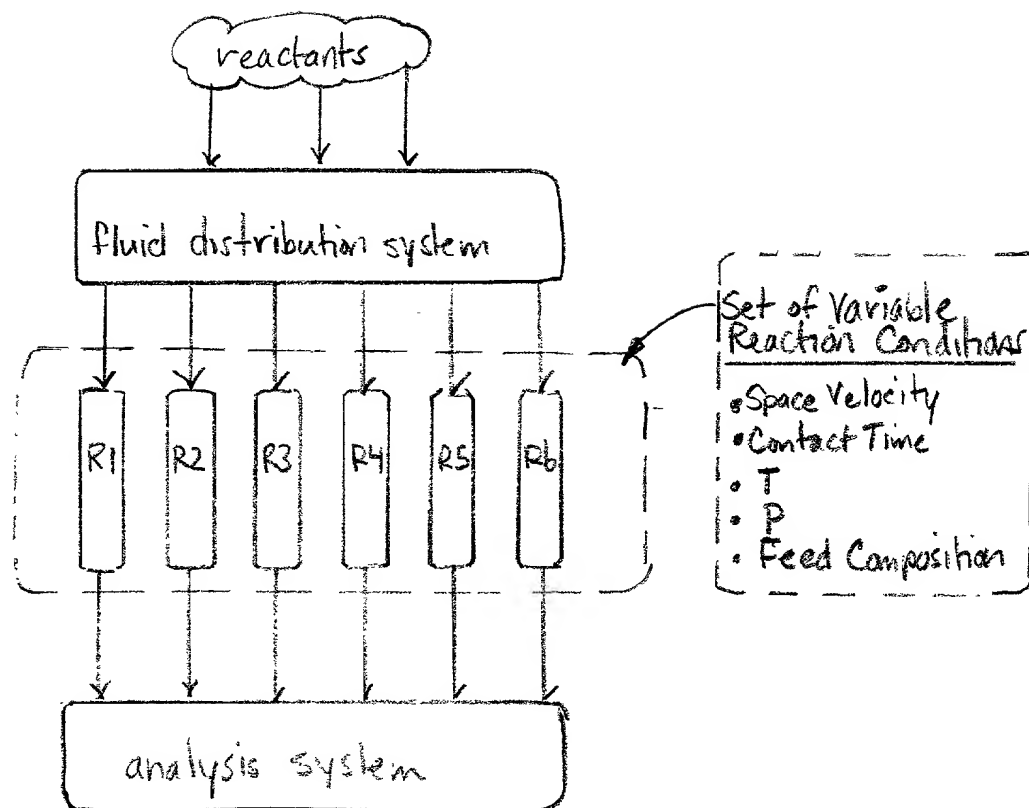


FIG. 2B

SV ₁ (or CT ₁)	C ₁	C ₁
SV ₂ (or CT ₂)	C ₁	C ₁
SV ₃ (or CT ₃)	C ₁	C ₁
	T ₁	T ₂
	(or) P ₁	(or) P ₁
	(or) FC ₁	(or) FC ₂

6 simultaneous experiments

FIG. 2C

SV ₁ (or CT ₁)	C ₁	C ₁	C ₁	C ₁
SV ₂ (or CT ₂)	C ₁	C ₁	C ₁	C ₁
SV ₃ (or CT ₃)	C ₁	C ₁	C ₁	C ₁
	T ₁	T ₂	P ₁	P ₂
			(or) FC ₁	(or) FC ₂

12 simultaneous experiments

Fig. 2D

SV_1 (or CT_1)	C_1	C_1	C_2	C_2
SV_2 (or CT_2)	C_1	C_1	C_2	C_2
SV_3 (or CT_3)	C_1	C_1	C_2	C_2
	T_1	T_2	T_1	T_2
	(P_1)	(P_2)	(P_1)	(P_2)
	(FC_1)	(FC_2)	(FC_1)	(FC_2)

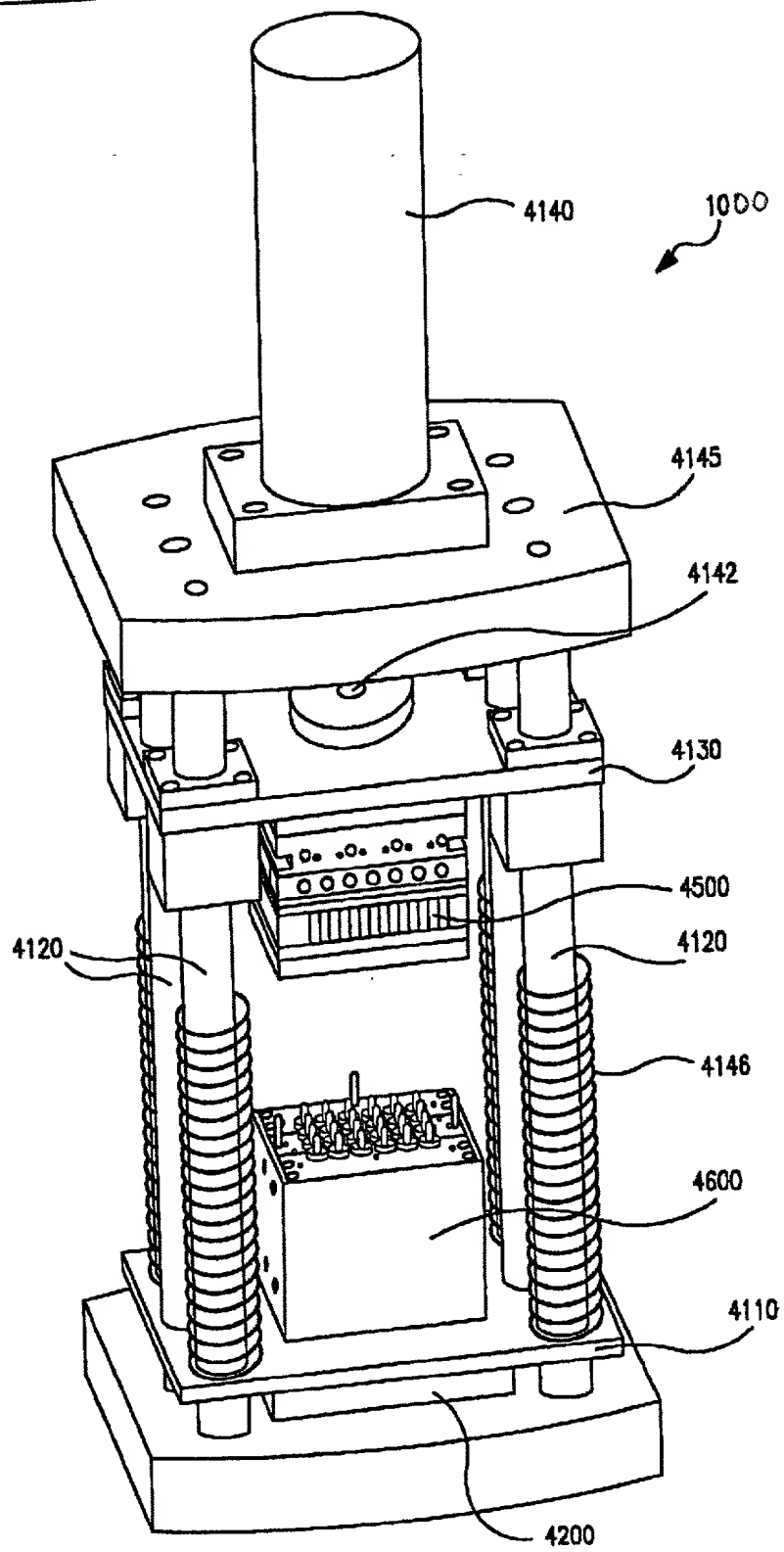
12 simultaneous
experiments

Fig. 2E

SV_1 (or CT_1)	C_1	C_2	C_3	C_4
SV_2 (or CT_2)	C_4	C_1	C_2	C_3
SV_3 (or CT_3)	C_3	C_4	C_1	C_2
SV_4 (or CT_4)	C_2	C_3	C_4	C_1
	T_1	T_2	T_3	T_4
	(P_1)	(P_2)	(P_3)	(P_4)
	(FC_1)	(FC_2)	(FC_3)	(FC_4)

16 simultaneous
experiments

FIG. 2F



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Fig. 24

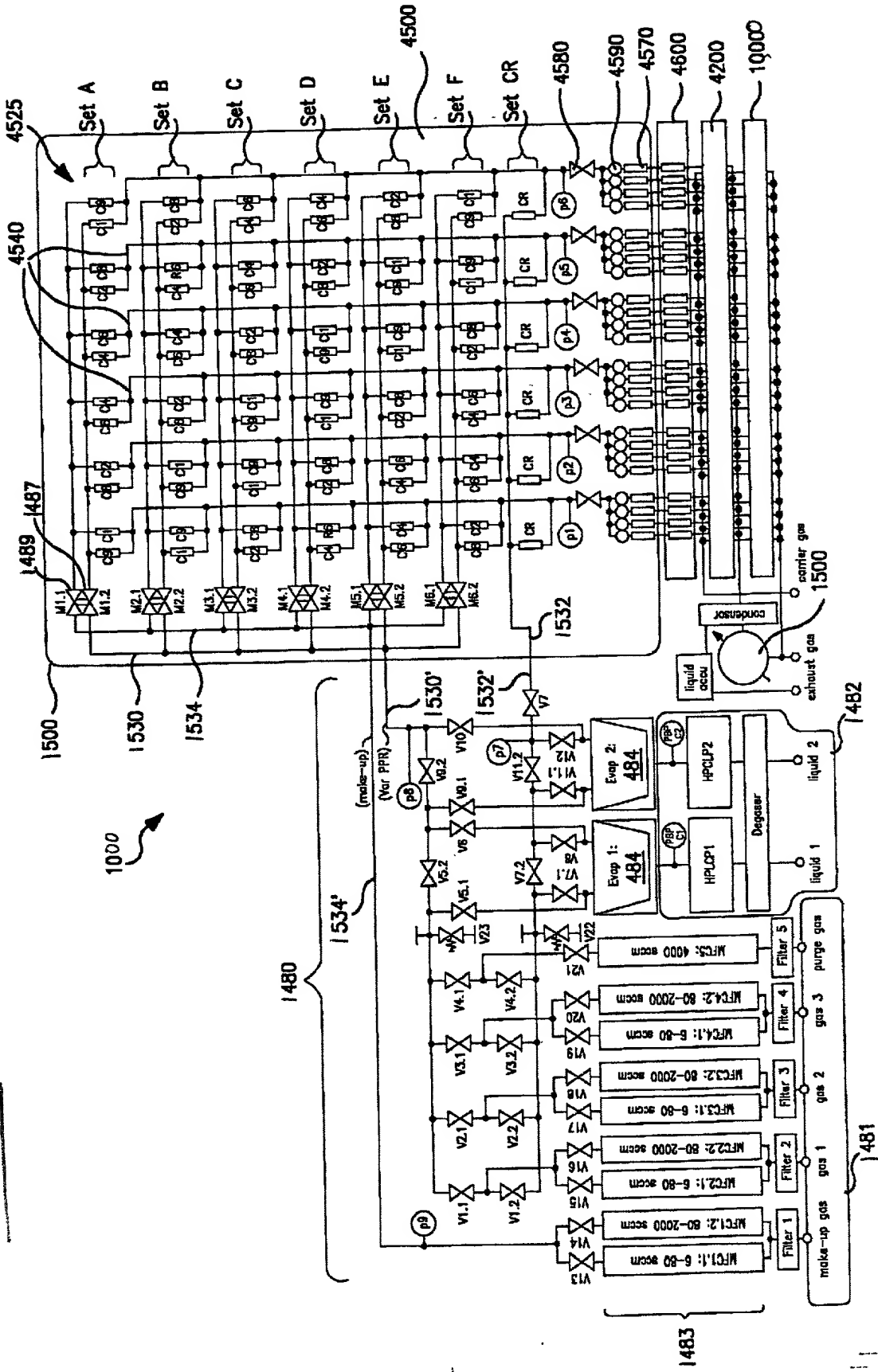


Figure 1 consists of 12 line graphs (a-l) showing the effect of various treatments on the growth of *E. coli* O157:H7 in ground beef. The y-axis represents log₁₀ CFU/g, ranging from 0 to 10. The x-axis represents time in hours, ranging from 0 to 24. The graphs show the effect of different treatments on the growth of *E. coli* O157:H7. The treatments are: (a) Control, (b) 10% NaCl, (c) 20% NaCl, (d) 30% NaCl, (e) 40% NaCl, (f) 50% NaCl, (g) 10% NaCl + 10% Na₂CO₃, (h) 20% NaCl + 10% Na₂CO₃, (i) 30% NaCl + 10% Na₂CO₃, (j) 40% NaCl + 10% Na₂CO₃, (k) 50% NaCl + 10% Na₂CO₃, and (l) 10% NaCl + 10% Na₂CO₃ + 10% Na₂HPO₄. The control shows the highest growth, reaching approximately 10 log₁₀ CFU/g by 24 hours. The addition of NaCl and Na₂CO₃ significantly reduces growth, with 50% NaCl and 50% NaCl + 10% Na₂CO₃ showing the lowest growth, remaining below 1 log₁₀ CFU/g throughout the 24-hour period.



FIG. 2I

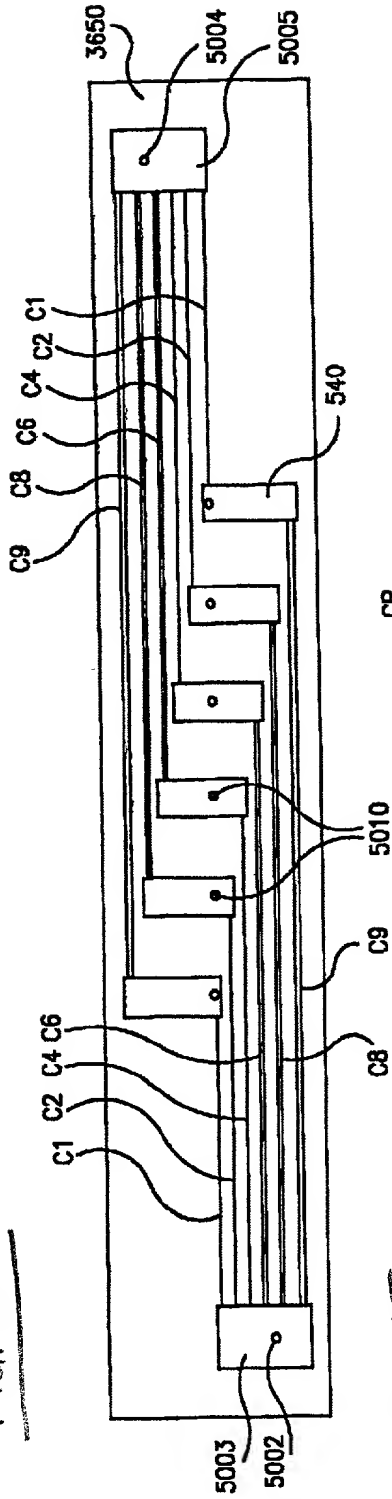


FIG. 2J

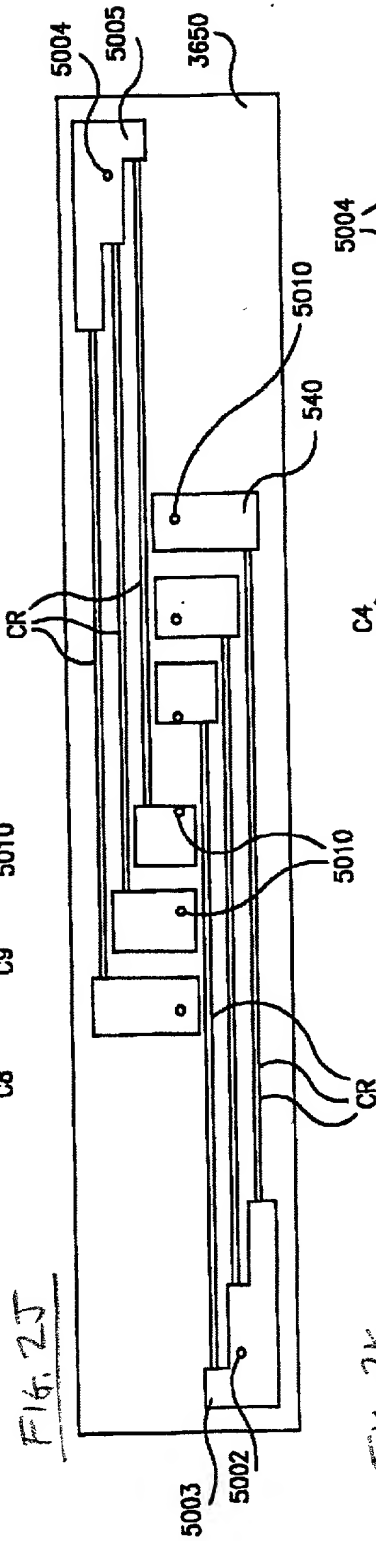
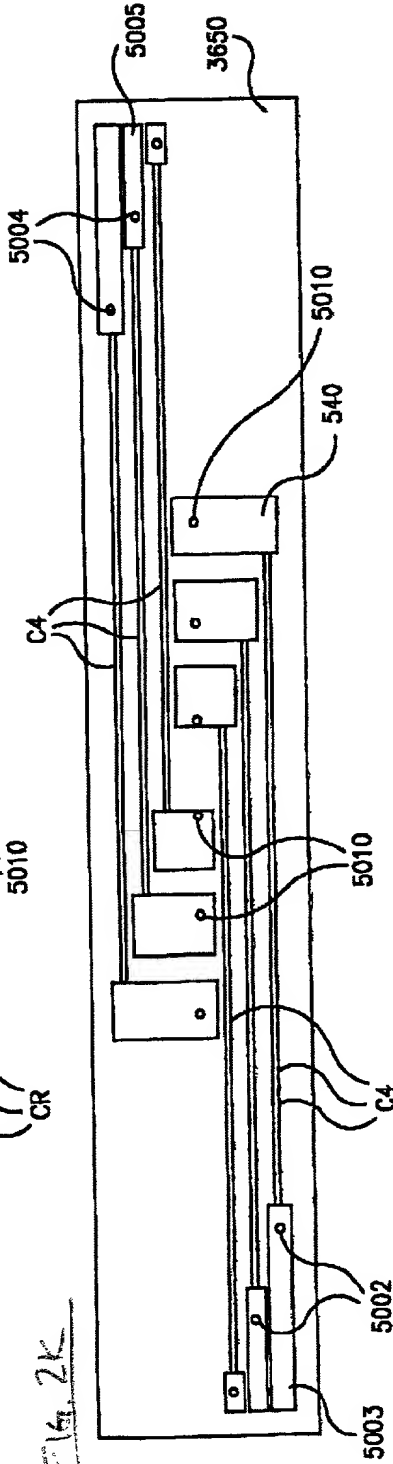


FIG. 2K



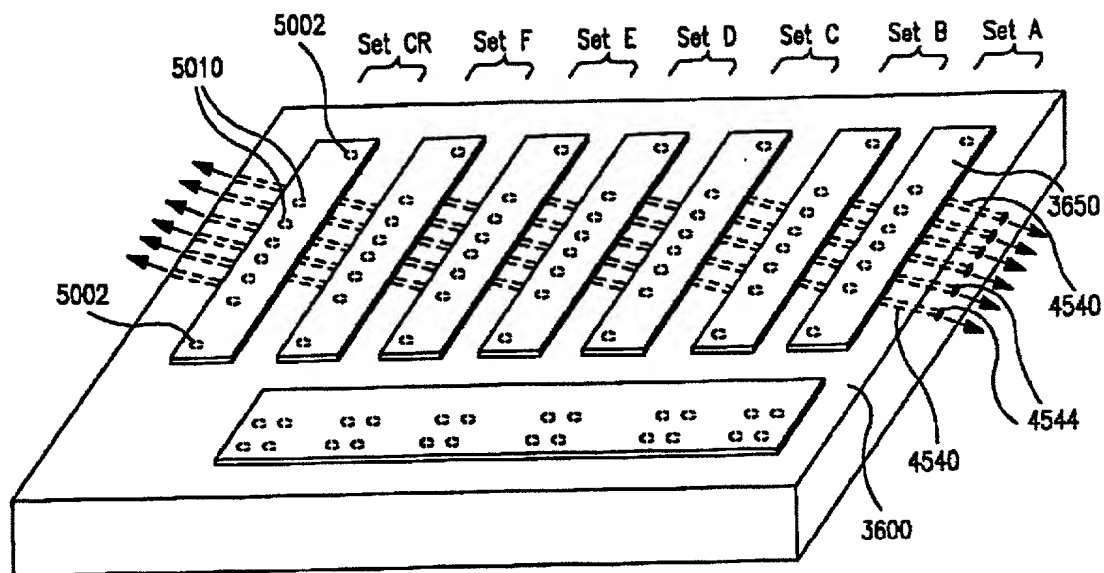


FIG. 2M

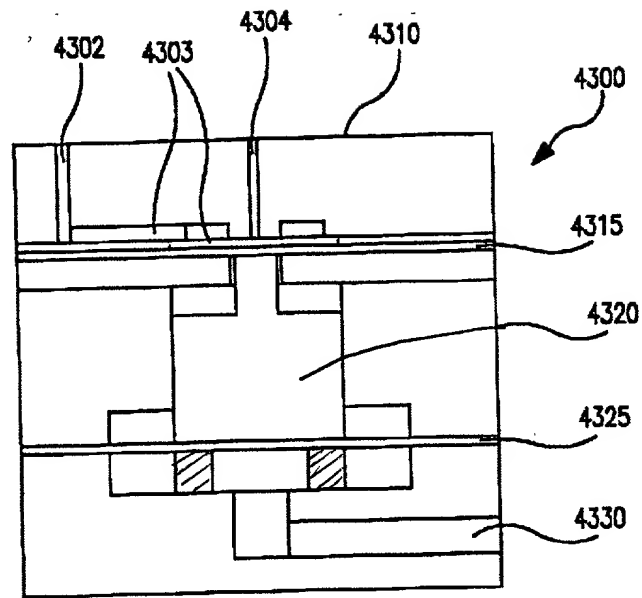


FIG. 2N

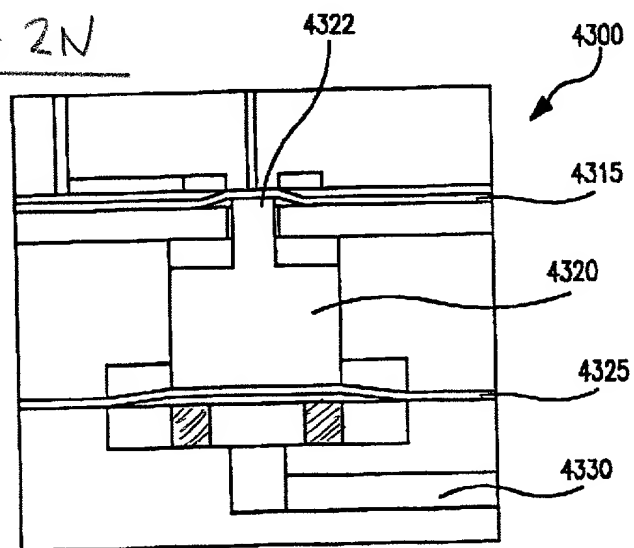


FIG. 20

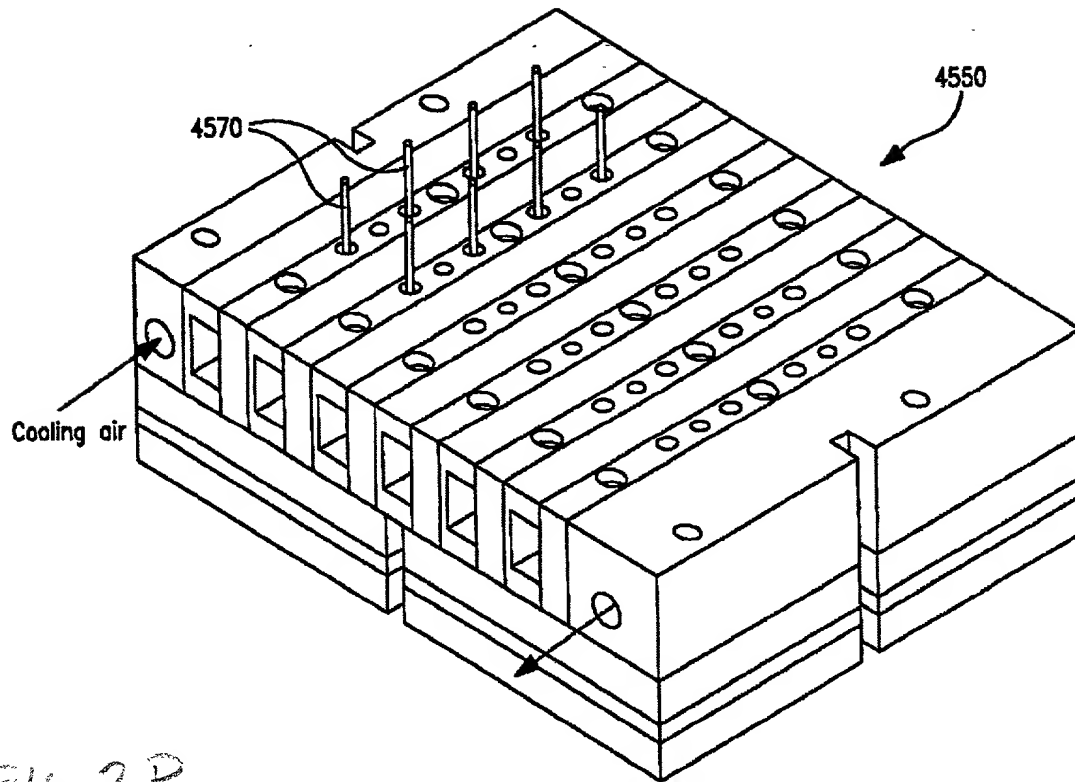


FIG. 2P

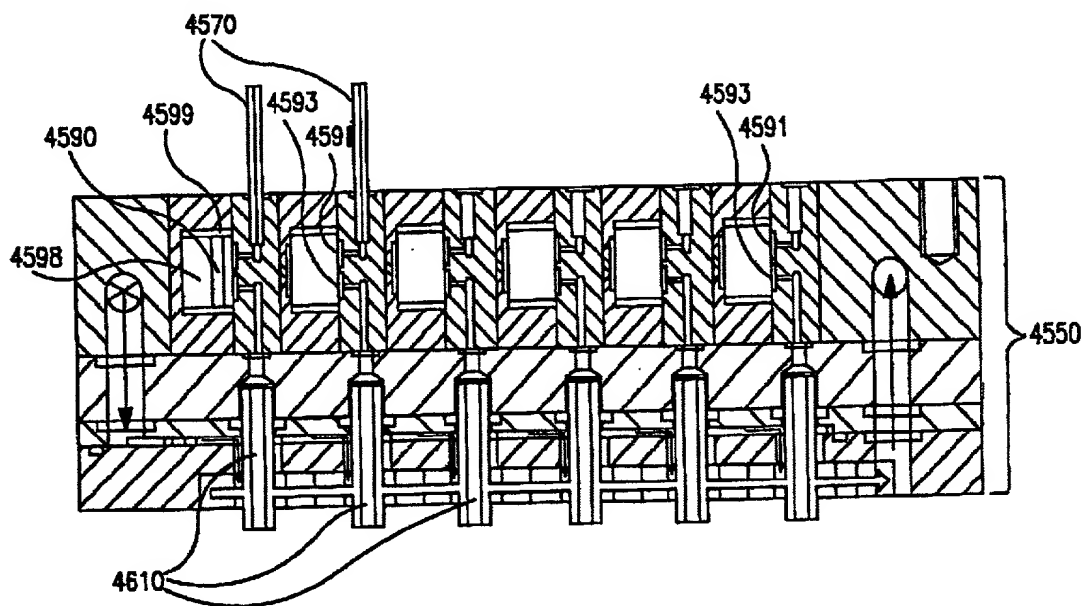


FIG. 2Q

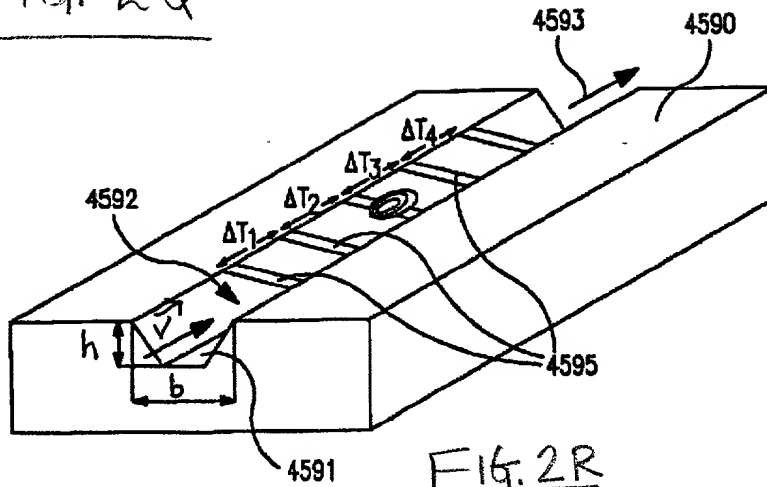


FIG. 2R

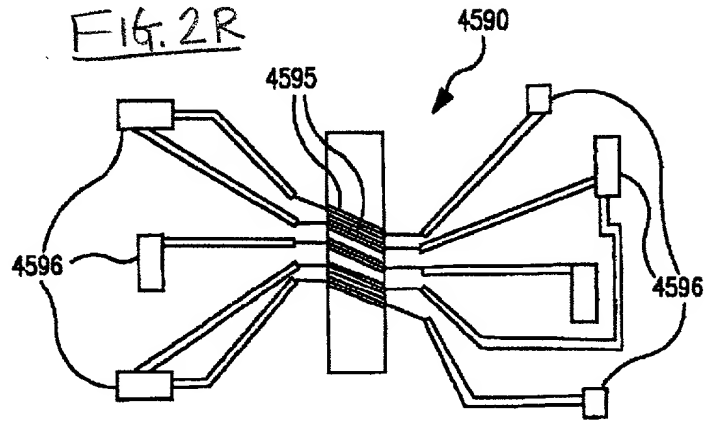


FIG. 2S

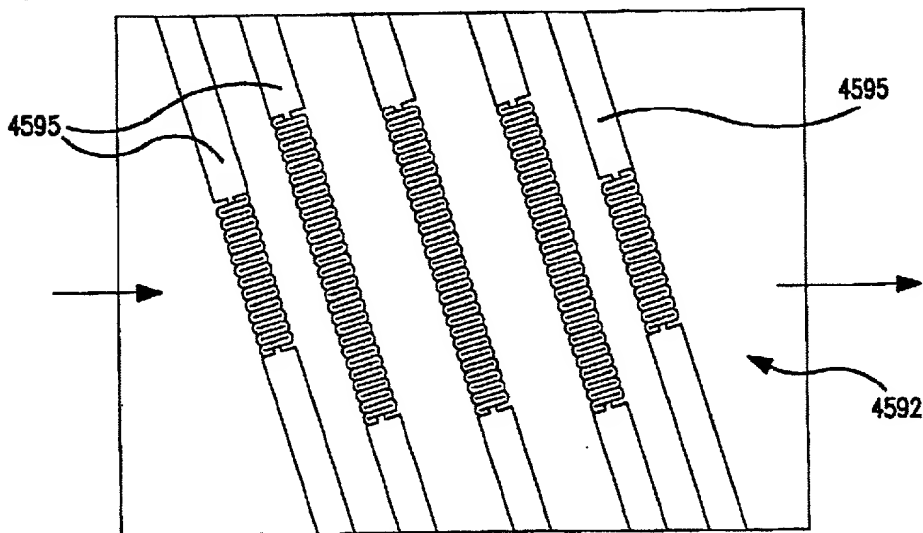


Fig 2T

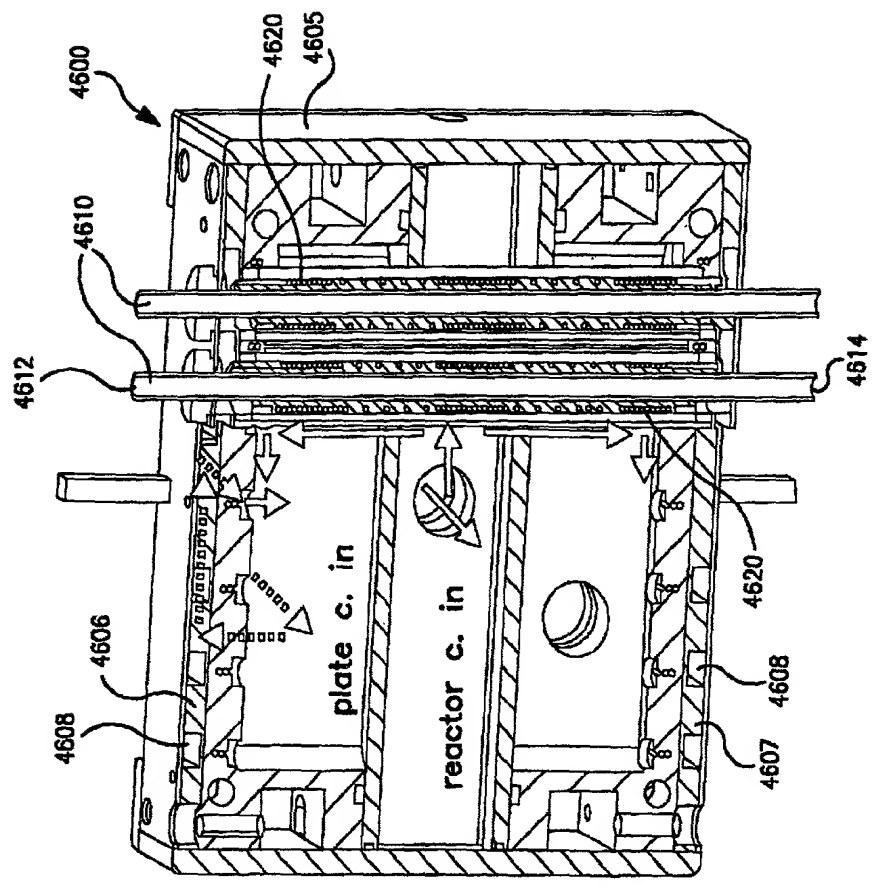
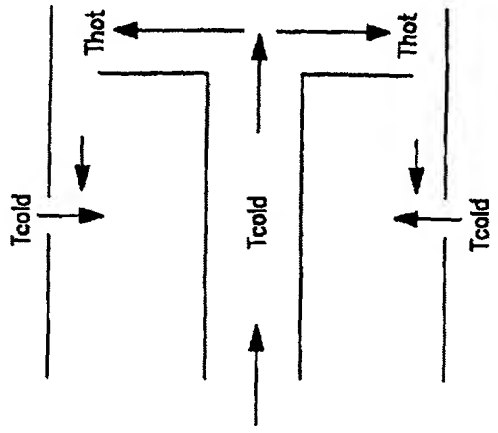
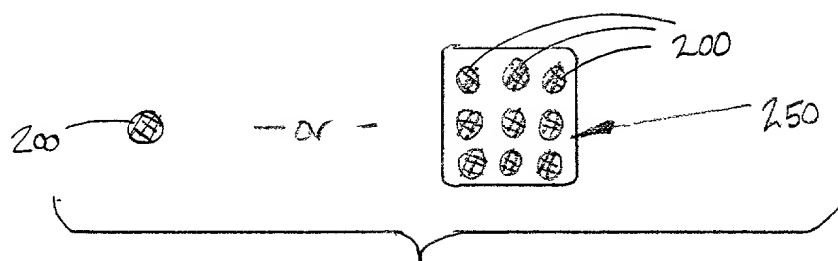
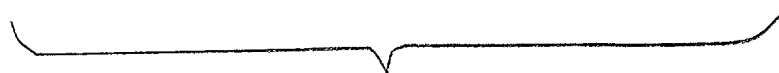


FIG. 3A

PROCESS EVALUATION



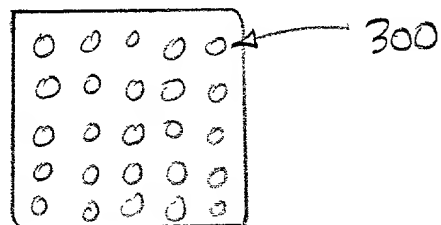
↓ PC₁ ↓ PC₂ ↓ PC₃ ↓ PC₄ ↓ PC₅ ... ↓ PC_n



PC preferred (for representative composition)
(for reaction of interest)

FIG. 3B

COMPOSITIONAL EVALUATION



↓ PC preferred

hits / leads

Fig. 4A

SYNTHESIS
PROCESS
EVALUATION

elements/substituents of
representative composition

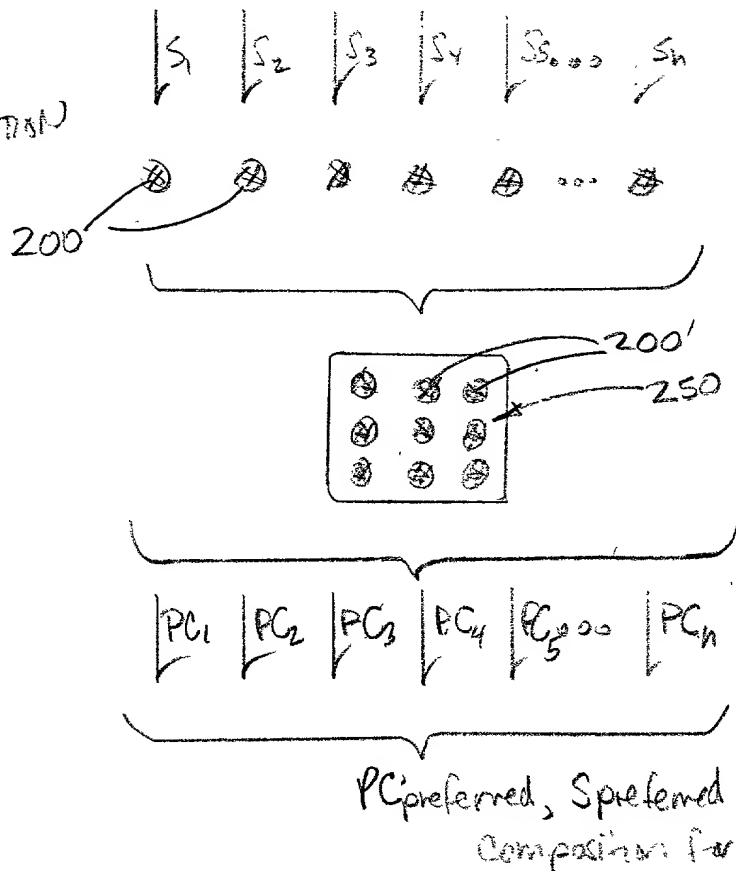


Fig. 4B

COMPOSITIONAL
EVALUATION

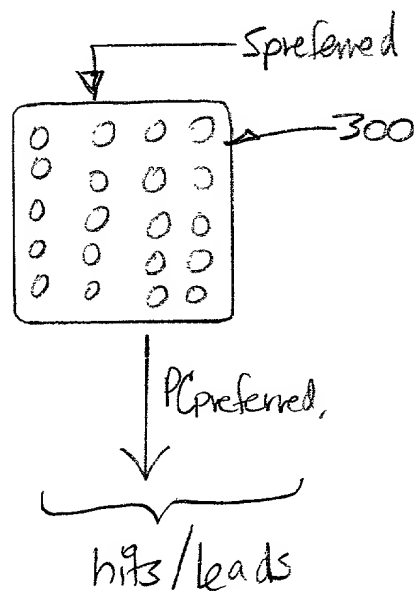


FIG. 5A

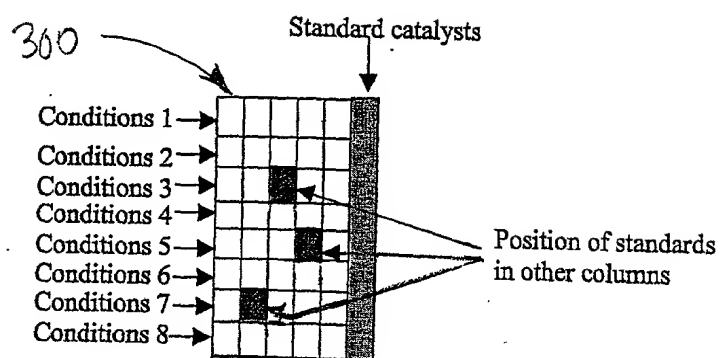


FIG. 5B

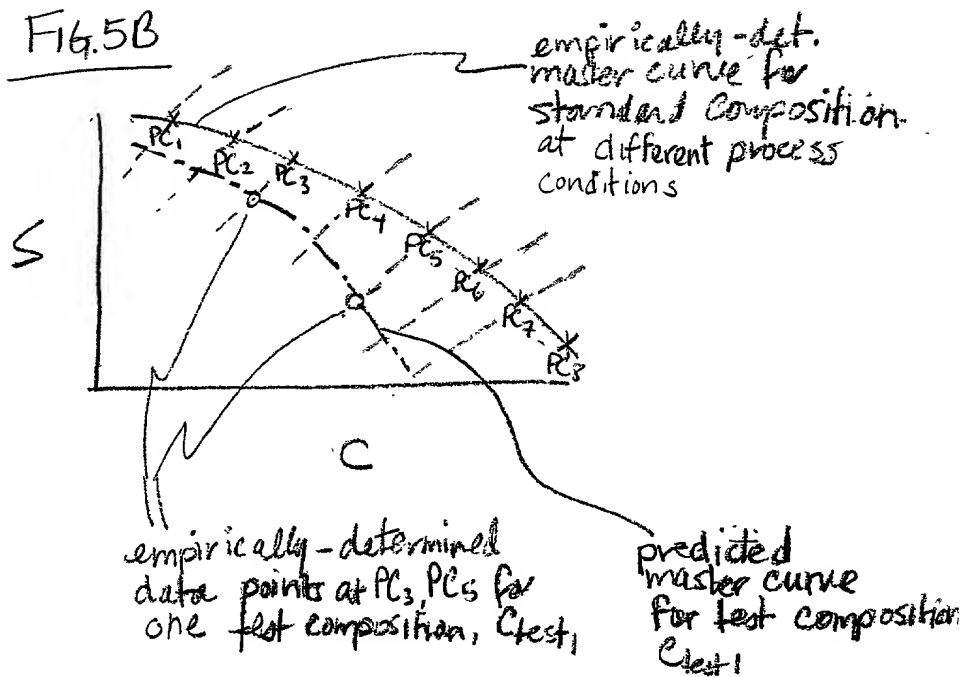


FIG. 5C

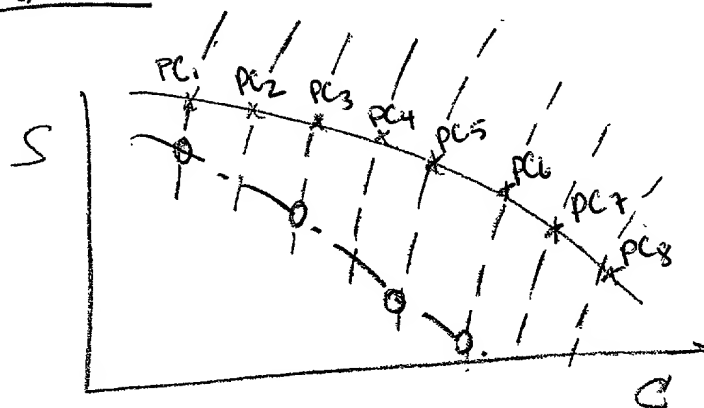


Fig. 5D

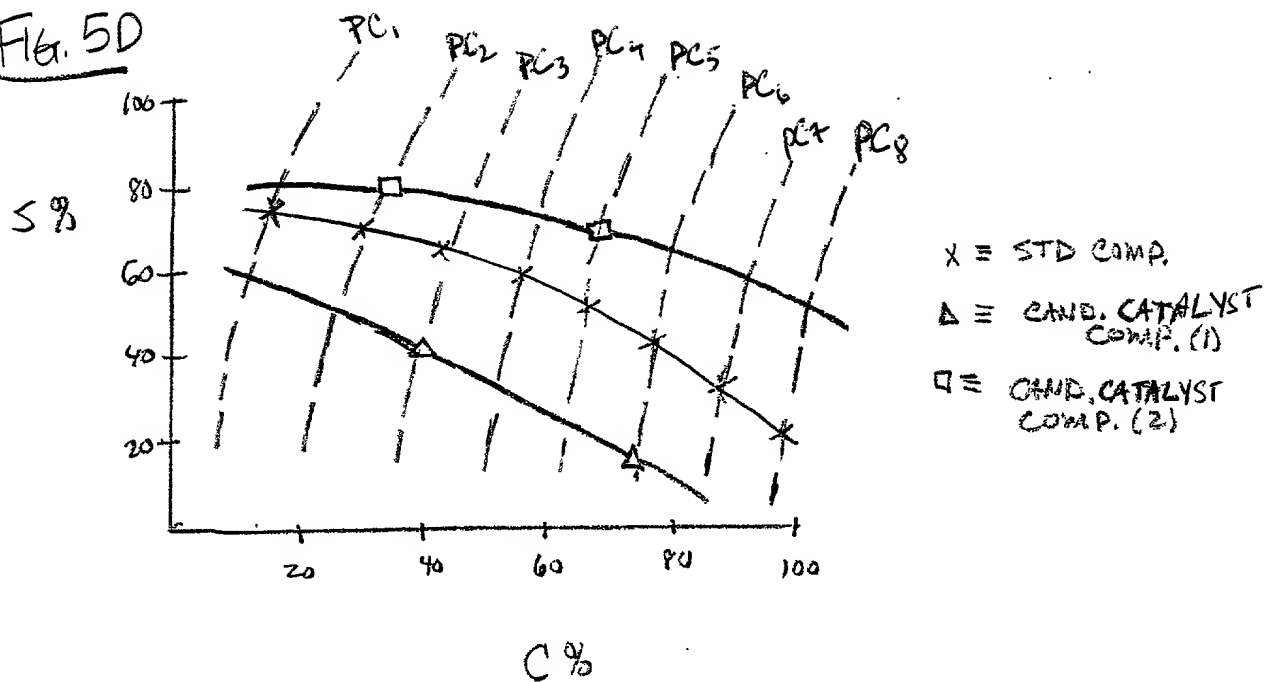


Fig. 5E

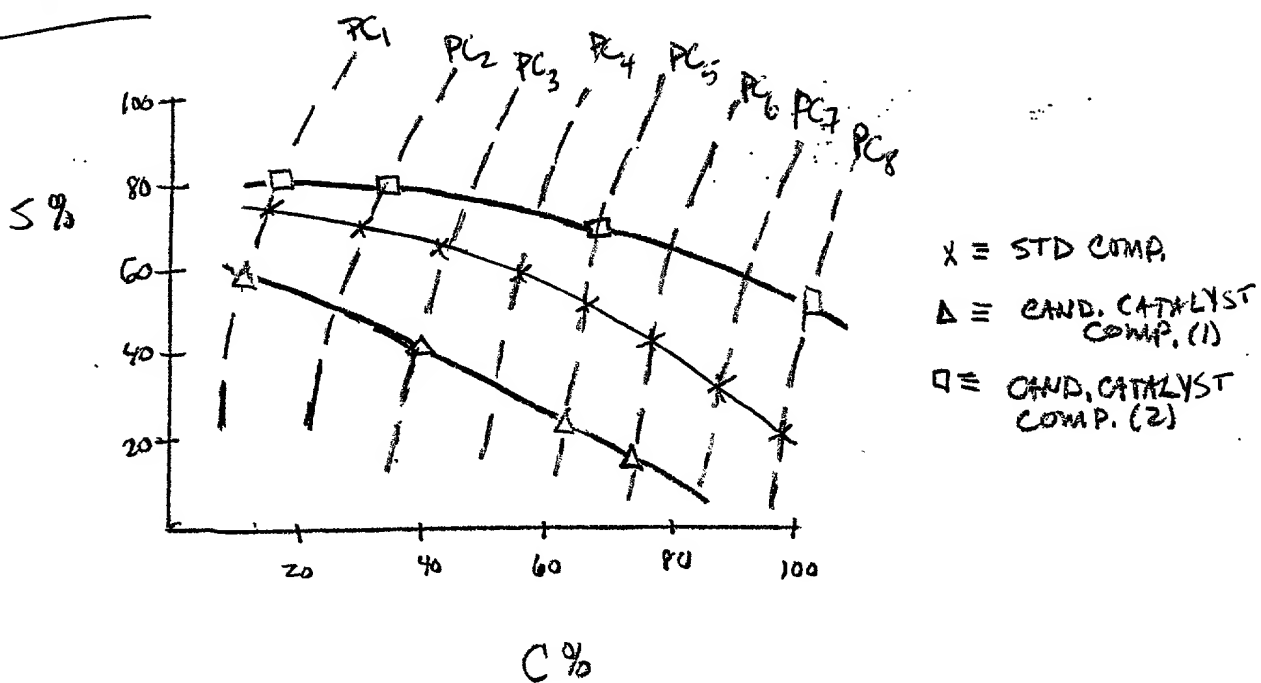
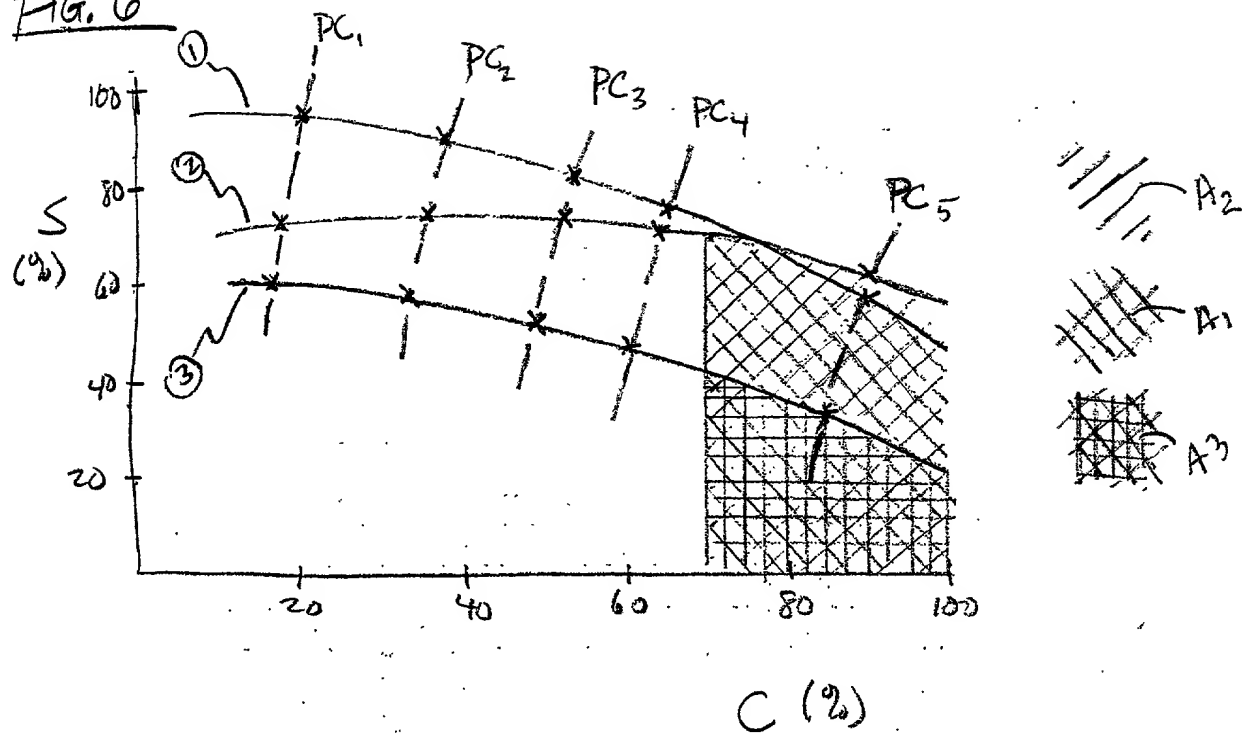


Fig. 6



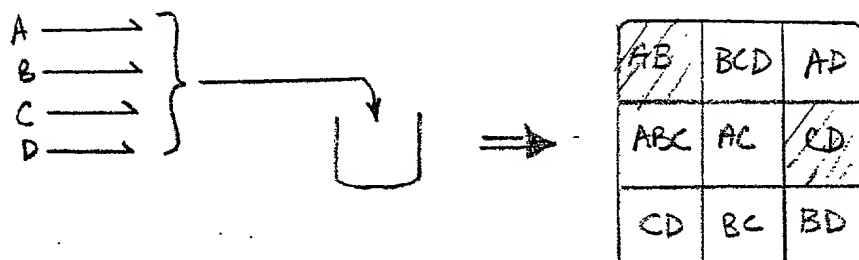
$$\left(A_2 \approx A_1 \gg A_3 \Rightarrow \textcircled{2} \approx \textcircled{1} \gg \textcircled{3} \text{ for catalyst performance} \right)$$

$$\textcircled{1} \equiv C_1$$

$$\textcircled{2} \equiv C_2$$

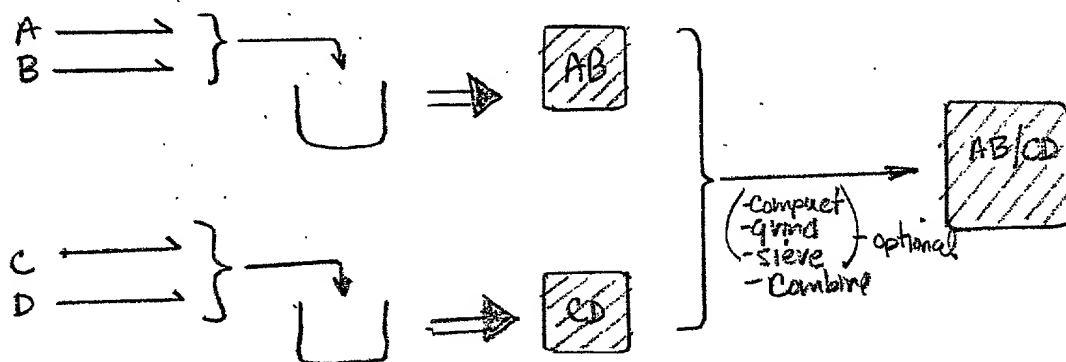
$$\textcircled{3} \equiv C_3$$

Fig. 7A (Prior Art) - (SINGLE POT SYNTHESIS)



/// ≡ catalytically active or promoter phase

Fig. 7B - (Selective Active-Phase Synthesis)



/// ≡ catalytically active or promoter phase